

## ABSTRACT

A position detection system includes a position pointer and a position detector. The "blind" area in which a position pointed to by a position pointer is undetectable is minimized. A transmission coil selector selects one of a plurality of transmission coils. A signal is generated by a transmission signal generator and supplied to a selected transmission coil. The selected transmission coil transmits the signal to the position pointer. A reception sensor coil selector selects a plurality of sensor coils. A position-indicating signal transmitted from the position pointer is received by each selected sensor coil, and a position pointed to by the position pointer is calculated from the received position-indicating signals. The position detection system loop coils are part of a resonant LC transmission circuit and are excited with a pulsed carrier signal to maximize the strength of the transmission signal, while dissipating relatively little power.